



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
401 M Street, S.W.  
WASHINGTON, D.C. 20460 Form

Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and .025 hours per response for information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to the address.

DATA MATRIX

Date: September 14, 2007		EPA Reg No./File Symbol: 11556-REL, 11556-REL 11556-RET, 11556-RGN		Page 1 of 11	
Bayer HealthCare LLC Animal Health Division P.O. Box 390 Shawnee Mission, KS 66201-0390		Product: Advantage® Plus 10 for Dogs Advantage® Plus 20 for Dogs Advantage® Plus 55 for Dogs Advantage® Plus 100 for Dogs		Ingredient: Imidacloprid, CAS = 138261-41-3  Pyriproxyfen, CAS = 95737-68-1	
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
					Report Number

Product Chemistry, Section 158.240

61-1	Chemical identity	42055302	264	PER	BR 1759 (TGAI)	
		43306001	264	PER	BR 1879 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
61-2	Statement of Composition	42055302	264	PER	BR 1759 (TGAI)	
		43306001	264	PER	BR 1879 (TGAI)	
		42270801	264	PER	BR 1785 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
61-3	Formation of impurities	42055302	264	PER	BR 1759 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
62-1	Preliminary analysis	42055303	264	PER	BR 1760 (TGAI)	
		43306002	264	PER	BR 1880 (TGAI)	
		42270802	264	PER	BR 1786 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
62-2	Certification of limits	42055303	264	PER	BR 1760 (TGAI)	
		43306002	264	PER	BR 1880 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
62-3	Analytical method	42055303	264	PER	BR 1760 (TGAI)	
		43213001	264	PER	BR 1874 (TGAI)	
		43306002	264	PER	BR 1880 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
		45096901	11556	OWN	Report No. 75130	Submitted with application for Advantage Plus 9 for Cats





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63-1	Chemical and Physical Properties	42055304	264	PER	BR 1761 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
63-2	Appearance	42055304	264	PER	BR 1761 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
63-3	Physical state	42055304	264	PER	BR 1761 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
63-4	Odor	42055304	264	PER	BR 1761 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
63-5	Melting point	42055304	264	PER	BR 1761 (TGAI)	
63-6	Boiling point	42055304	264	PER	BR 1761 (TGAI)	
63-7	Density	42055304	264	PER	BR 1761 (TGAI)	
		43356302	264	PER	BR 1761 (Formulation)	
63-8	Solubility	42055304	264	PER	BR 1761 (TGAI)	
63-9	Vapor pressure	42055304	264	PER	BR 1761 (TGAI)	
63-10	Dissociation constant					N.A. - Does not dissociate
63-11	Octanol / water partition	42055304	264	PER	BR 1761 (TGAI)	
63-12	pH	42055304	264	PER	BR 1761 (TGAI)	
		42256302	264	PER	BR 1766 (Formulation)	
63-13	Stability	42055304	264	PER	BR 1761 (TGAI)	
63-14	Oxidizing / reducing action		264	PER		N.A. - No oxidative or reductive characteristics
63-15	Flammability	42055304	264	PER	BR 1761 (TGAI)	
63-16	Explosibility	42055304	264	PER	BR 1761 (TGAI)	





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63-17	Storage stability	42055304	264	PER	BR 1761 (TGA)	
		42256302	264	PER	BR 1766 (Formulation)	
63-18	Viscosity		264	PER		N.A. - Solid
63-19	Miscibility		264	PER		N.A. - Solid
63-20	Corrosion characteristics	42055304	264	PER	BR 1761 (TGA)	
		42256302	264	PER	BR 1766 (Formulation)	
63-21	Dielectric breakdown volt					N.A. - Solid
64-1	Submittal of samples				Samples available upon request	
830-Group A	Product Chemistry: Identity, Composition, Analysis	45096902	11556	OWN	Report No. 75133	Submitted with application for Advantage Plus 9 for Cats
830-Group B	Product Chemistry: Physical/Chemical Properties	45096903	11556	OWN	Report No. 75132	Submitted with application for Advantage Plus 9 for Cats
Wildlife and Aquatic Organisms, Section 158.490						
71-1	Acute avian oral - quail/duck					N.A.
71-2(a)	Avian dietary - quail					N.A.
71-2(b)	Avian dietary - duck					N.A.
71-3	Wild mammal toxicity					N.A.
71-4(a)	Avian reproduction - quail					N.A.
71-4(b)	Avian reproduction - duck					N.A.
71-5	Simulated or actual field study					N.A.
72-1(a)	Fish toxicity - bluegill					N.A.
72-1(b)	Fish toxicity bluegill - tep					N.A.
72-2(a)	Invertebrate toxicity - Daphnia					N.A.





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72-2(b)	Invertebrate toxicity - Amphipods					N.A.
72-2(c)	Acute aquatic invertebrate toxicity - Chironomids					N.A.
72-3(a)	Estuarine / marine toxicity - fish					N.A.
72-3(b)	Estuarine / marine toxicity - mollusk					N.A.
72-3(c)	Estuarine/marine toxicity - shrimp					N.A.
72-4(a)	Early life stage - fish					N.A.
72-4(b)	Life cycle invertebrate					N.A.
72-7	Simulated or actual field study					N.A.
None	Foliar half-life and distribution for potatoes					N.A.
None	Runoff and Erosion predictions for apple/potato/cotton					N.A.
None	Risk assessment for apple/potato/cotton					N.A.
None	PELMO Modeling - sugarbeet/Germany					N.A.
Toxicology, Section 158.340						
81-1	Acute oral toxicity rat	42055331	264	PER	Report No. 100040 (TGAI)	
		42256313	264	PER	Report No. 100010 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43679601	11556	OWN	Report No. 74585 (Adv)	
		45096904	11556	OWN	Report No. 75195 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats
		47089411	11556	OWN	Report No. 75922 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats





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Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note	Description
					Report Number	

81-2	Acute dermal toxicity, rat/rabbit	42055332	264	PER	Report No. 100041 (TGAI)	
		42256315	264	PER	Report No. 100002 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		4379602	11556	OWN	Report No. 74584 (Adv)	
		45096905	11556	OWN	Report No. 75196	Submitted with application for Advantage Plus 9 for Cats
81-3	Acute inhalation toxicity, rat	42055333	264	PER	Report No. 99806 (TGAI)	
		42286101	264	PER	Report No. 99806-1 (TGAI)	
		42256317	264	PER	Report No. 100012 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43679603	11556	OWN	Report No. 74589 (Adv)	
		45096906	11556	OWN	Report No. 75197 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats
81-4	Primary eye irritation - rabbit	42055334	264	PER	Report No. 99679 (TGAI)	
		42256319	264	PER	Report No. 99815 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43679604	11556	OWN	Report No. 74588 (Adv)	
		45096907	11556	OWN	Report No. 75199 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats





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<b>Guideline Reference Number</b>	<b>Guideline Study Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Note</b> <b>Report Number</b>	<b>Description</b>

81-5	Primary dermal irritation - rabbit	42055335	264	PER	Report No. 99804 (TGAI)	
		42256321	264	PER	Report No. 99816 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43679605	11556	OWN	Report No. 74586 (Adv)	
		45096908	11556	OWN	Report No. 75200 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats
81-6	Dermal sensitization - guinea pig	42055336	264	PER	Report No. 99800 (TGAI)	
		42256323	264	PER	Report No. 100003 (2 F)	
		43428201	264	PER	Report No. 106380 (1.6 F)	
		43679606	11556	OWN	Report No. 74587 (Adv)	
		45096909	11556	OWN	Report No. 75201 (Adv Plus)	Submitted with application for Advantage Plus 9 for Cats
81-8(SS)	Acute neurotoxicity	43170301	264	PER	Report No. 106348	
		43285801	264	PER	Report No. 106348-1	
82-1(a)	90-day feeding - rodent	42256327	264	PER	Report No. 100036	
82-1(b)	90-day feeding - non-rodent	42256328	264	PER	Report No. 100176	
82-2	21-day dermal - rabbit/rat	42256329	264	PER	Report No. 100688	
82-5(b)	90 day neurotoxicity - mammal	43286401	264	PER	Report No. 106356	
83-1(a)	Chronic feeding toxicity - rodent	42256331	264	PER	Report No. 100652	
		42256332	264	PER	Report No. 101931	
		42256333	264	PER	Report No. 102658	
		42256334	264	PER	Report No. 99672	
		42273002	264	PER	Report No. 100015	
83-1(b)	Chronic feeding toxicity - non-rodent					





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83-2(a)	Oncogenicity - rat	42256331	264	PER	Report No. 100652	
		42256332	264	PER	Report No. 101931	
		42256333	264	PER	Report No. 102658	
		42256334	264	PER	Report No. 99672	
83-2(b)	Oncogenicity - mouse	42256335	264	PER	Report No. 100693	
		42256336	264	PER	Report No. 101929	
		42256337	264	PER	Report No. 99808	
83-3(a)	Developmental toxicity - rat	42256338	264	PER	Report No. 98571	
83-3(b)	Developmental toxicity - rabbit	42256339	264	PER	Report No. 98572	
83-4	Two generation reproduction - rat	42256340	264	PER	Report No. 100647	
84-2(a)	Gene mutation (ames test)	42256341	264	PER	Report No. 101276	
		42256342	264	PER	Report No. 98584	
		42256343	264	PER	Report No. 98570	
84-2(b)	Structural chromosomal aberration	42256344	264	PER	Report No. 100021	
		42256345	264	PER	Report No. 99262	
		42256346	264	PER	Report No. 99257	
		42256347	264	PER	Report No. 102652	
		42256348	264	PER	Report No. 102654	
		42256349	264	PER	Report No. 102655	
84-4	Other genotoxic effects	42256350	264	PER	Report No. 99676	
		42256351	264	PER	Report No. 101275	
		42256352	264	PER	Report No. 98573	
		42256353	264	PER	Report No. 102653	





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85-1	General metabolism	42256354	264	PER	Report No. 101999	
		42256355	264	PER	Report No. 87264	
		42256356	264	PER	Report No. 87265	
		42256357	264	PER	Report No. 102617	
870.7200  (86-1)	Domestic Animal Safety	43679607	11556	OWN	Report No. 74580 (Adv)	Dogs
		43679608	11556	OWN	Report No. 74590 (Adv)	Dogs
		44099801	11556	OWN	Report No. 74730 (Adv)	Puppies
		45097102	11556	OWN	Report No. 75121 (Adv Plus)	Dogs
		45097101	11556	OWN	Report No. 75119 (Adv Plus)	Puppies
95-9	Efficacy	43679503	11556	OWN	Report No. 74571 (Adv)	Cats
		43679504	11556	OWN	Report No. 74581 (Adv)	Cats
		43679609	11556	OWN	Report No. 74572 (Adv)	Dogs
		43679610	11556	OWN	Report No. 74541 (Adv)	Dogs
		44256901	11556	OWN	Report No. 74800 (Adv)	Speed of flea kill
		44256902	11556	OWN	Report No. 47828 (Adv)	Larvicidal efficacy
		44256903	11556	OWN	Report No. 74792 (Adv)	Effects of shampooing
		47109101	11556	OWN	Report No. 75867 (K9)	Waterproof
		45086801	1021	PER	Report No. OT018-94	Pyriproxyfen efficacy
		45086801	1021	PER	Report No. OT016-93	Pyriproxyfen efficacy
		45086801	1021	PER	Report No. OT006-96	Pyriproxyfen efficacy
		47190401	11556	OWN	Report No. 75950 (Advantage)	Lice
Plant Protection, Section 158.540						
122-2	Aquatic plant growth					N.A.
123-2	Aquatic plant growth					N.A.





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Non-Target Insects,  
Section 158.590

141-1	Honey bee acute contact					N.A.
141-2	Honey bee residue on foliage					N.A.

Reentry Protection,  
Section 158.390

230-236	Mixer/loader/applicator exposure					N. A.
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Environmental Fate,  
Section 158.290

161-1	Hydrolysis					N.A.
161-2	Photodegradation - water					N.A.
161-3	Photodegradation - soil					N.A.
162-1	Aerobic soil metabolism					N.A.
162-2	Anerobic soil metabolism					N.A.
162-3	Anaerobic aquatic metabolism					N.A.
163-1	Leaching / adsorption/desorption					N.A.
164-1	Terrestrial field dissipation					N.A.
165-1	Confined rotational crop					N.A.
165-2	Field rotational crop					N.A.
166-1	Ground water - small prospective					N.A.
None	Environmental fate summary					N.A.





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Residue, Section 158.240						
171-4(a)	Nature of residue - plants					N.A.
171-4(b)	Nature of residue - livestock and poultry					N.A.
171-4(c)	Residue analytical method - plants					N.A.
171-4(d)	Residue analytical method - animal					N.A.
171-4(e)	Storage stability					N.A.
171-4(j)	Magnitude of residues - meat/milk/poultry/egg					N.A.
171-4(k)	Magnitude of residue - crop field trials					N.A.
171-4(l)	Magnitude of residue - processed food/feed					N.A.
171-4(m)	Method validation/ multiresidue method					N.A.
None	Benefits Reports					
None	Dietary Analysis					N.A.
Child-Resistant Packaging, Section 157						
157.20	Standards – Child-Resistant Packaging Testing	47089407	11556	OWN	Report No. 75913	Submitted with Advantage Plus 9 for Cats; 0.4 mL/4pk/Child
		47089408	11556	OWN	Report No. 75914	Submitted with Advantage Plus 9 for Cats; 0.4 mL/4pk/Adult
		47089409	11556	OWN	Report No. 75915	Submitted with Advantage Plus 9 for Cats; 0.4 mL/6pk/Child
		47089410	11556	OWN	Report No. 75916	Submitted with Advantage Plus 9 for Cats; 0.4 mL/6pk/Adult
		47089103	11556	OWN	Report No. 75897	Submitted with Advantage Plus 20 for Dogs; 1.0 mL/4pk/Child





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
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WASHINGTON, D.C. 20460 Form

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DATA MATRIX

<b>Date:</b> September 14, 2007		<b>EPA Reg No./File Symbol:</b> 11556-REL, 11556-REL 11556-RET, 11556-RGN		Page 11 of 11	
Bayer HealthCare LLC Animal Health Division P.O. Box 390 Shawnee Mission, KS 66201-0390		<b>Product:</b> Advantage® Plus 10 for Dogs Advantage® Plus 20 for Dogs Advantage® Plus 55 for Dogs Advantage® Plus 100 for Dogs		<b>Ingredient:</b> Imidacloprid, CAS = 138261-41-3  Pyriproxyfen, CAS = 95737-68-1	
<b>Guideline Reference Number</b>	<b>Guideline Study Name</b>	<b>MRID Number</b>	<b>Submitter</b>	<b>Status</b>	<b>Note</b>
					<b>Report Number</b> <b>Description</b>

		47089104	11556	OWN	Report No. 75898	Submitted with Advantage Plus 20 for Dogs; 1.0 mL/4pk/Adult
		47089101	11556	OWN	Report No. 75893	Submitted with Advantage Plus 20 for Dogs; 1.0 mL/6pk/Child
		47089102	11556	OWN	Report No. 75894	Submitted with Advantage Plus 20 for Cats; 1.0 mL/6pk/Adult
		47089201	11556	OWN	Report No. 75905	Submitted with Advantage Plus 55 for Dogs; 2.5 mL/4PK/Child
		47089202	11556	OWN	Report No. 75906	Submitted with Advantage Plus 55 for Dogs; 2.5 mL/4PK/Adult
		47089203	11556	OWN	Report No. 75907	Submitted with Advantage Plus 55 for Dogs; 2.5 mL/6PK/Child
		47089204	11556	OWN	Report No. 75908	Submitted with Advantage Plus 55 for Dogs; 2.5 mL/6PK/Adult
		47089301	11556	OWN	Report No. 75909	Submitted with Advantage Plus 100 for Dogs; 4.0 mL/4PK/Child
		47089302	11556	OWN	Report No. 75910	Submitted with Advantage Plus 100 for Dogs; 4.0 mL/4PK/Adult
		47089303	11556	OWN	Report No. 75911	Submitted with Advantage Plus 100 for Dogs; 4.0 mL/6PK/Child
		47089304	11556	OWN	Report No. 75912	Submitted with Advantage Plus 100 for Dogs; 4.0 mL/6PK/Adult

Signature

Douglas A. Spilker  
Manager, EPA Regulatory Affairs

September 14, 2007